



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,511	01/23/2004	Moon-jeong Choi	Q79175	5245
23373 7590 11/25/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037				
EXAMINER				
DAILEY, THOMAS J				
ART UNIT		PAPER NUMBER		
2452				
NOTIFICATION DATE		DELIVERY MODE		
11/25/2009		ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com  
PPROCESSING@SUGHRUE.COM  
USPTO@SUGHRUE.COM

# Office Action Summary

**Application No.**

10/762,511

**Applicant(s)**

CHOI, MOON-JEONG

**Examiner**

Thomas J. Dailey

**Art Unit**

2452

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 August 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SI/22)
- Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. Claim 2 was cancelled by the amendment filed on August 26, 2009.
2. Claims 1 and 3-24 are pending.

### ***Response to Arguments***

3. Applicant's arguments filed August 26, 2009 have been fully considered but they are not persuasive.
4. The applicant argues with respect to claim 1, which now incorporates the subject matter of now cancelled claim 2, that the combination of Humpleman and Wugoski fails to disclose "the control unit comprises a database server and a remote control proxy server." Specifically, the applicant contends Humpleman discloses that the session manager (reading on the claim's "the database server" in the examiner's interpretation) sends command and control information to cause communication, and in other words Humpleman fails to teach or suggest collection information.
5. The examiner disagrees. Humpleman discloses the control unit comprises:  
a database server which collects the remote control service list information and manages the collected information (column 14, lines 38-42, the session manager inherently manages function information as it sends command and control information to the managed devices; such information is collected as

shown in column 9, lines 43-48, where the session manager is aware of the capabilities of the devices, which would require collection and storage of "remote control service list information").

That is, column 9, lines 43-52, clearly illustrates that Humpleman's session manager is not simply limited to cause communication between devices.

6. The applicant further argues with respect to claim 1 that the combination of Humpleman and Wugoski fails to disclose that a remote control proxy server, "provides the certain device with the remote control service in accordance with the remote control service list information collected through the database server." Specifically, the applicant contends Humpleman merely discloses that, "the session manager sends the command and the control information to the managed device," and fails to disclose that the certain device is provided with the remote control service "in accordance with the remote control service list information collected through the database server."
7. The examiner disagrees. Humpleman discloses the control unit comprises:
  - a remote control proxy server which provides the certain device with the remote control service in accordance with the remote control service list information collected through the database server, and upon receiving from the certain device a request for the remote control through the remote control service, reads a remote control command from the database server in

accordance with the remote control request (column 14, lines 38-42, command and control signals are inherently read from the database in the session manager as they are sent from the session manager; such information is collected as shown in column 9, lines 43-48, where the session manager is aware of the capabilities of the devices, which would require collection and storage of "remote control service list information").

That is, as the session manager is aware of the capabilities of the device (acquired via collection), it would only provide commands selected from such capabilities (i.e., "in accordance with the remote control service list information collected through the database server).

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1, 3-10, 15, and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Humpleman et al (US Pat. 6,243,707), hereafter "Humpleman," in view of Wugoski (US Pat. 6,690,392, previously cited on PTO 892 dated 8/6/2007).

10. As to claim 1, Humpleman discloses a remote control service processing device in a home network environment (Abstract), comprising:

an interface for a data exchange between a plurality of types of devices which are designed to respond to a remote control command received through the network (column 4, lines 54-63);

a storage unit which stores remote control service list information which represents a function responding to a remote controller of the respective devices connected in the network by matching the remote control list information to information of each of the respective devices (column 7, lines 38-48, HTML files store remote control service list information and said HTML files are stored at a home device (column 7, lines 19-21), thus making a storage unit inherent); and

a control unit which collects the remote control service list information from the respective devices, stores the collected information in the storage unit (column 14, lines 21-29), generates a remote service menu as a graphic user interface using the collected information (column 14, lines 21-29, HTML page lists various commands (i.e. a menu) that correspond to the commands for the devices) and provides a certain device in the network with a remote control service to remote control at least one of the respective devices through the graphic user interface (column 7, lines 38-48 and column 14, lines 30-34), wherein the control unit comprises:

a database server which collects the remote control service list information and manages the collected information (column 14, lines 38-42, the session manager inherently manages function information as it sends command and control information to the managed devices; such information is collected as shown in column 9, lines 43-48, where the session manager is aware of the capabilities of the devices, which would require collection and storage of "remote control service list information"); and

a remote control proxy server which provides the certain device with the remote control service in accordance with the remote control service list information collected through the database server, and upon receiving from the certain device a request for the remote control through the remote control service, reads a remote control command from the database server in accordance with the remote control request (request (column 14, lines 38-42, command and control signals are inherently read from the database in the session manager as they are sent from the session manager; such information is collected as shown in column 9, lines 43-48, where the session manager is aware of the capabilities of the devices, which would require collection and storage of "remote control service list information"), and transmits the remote control command to the corresponding device (column 14, lines 38-42).

But, Humpleman does not explicitly disclose the central storage unit stores remote control service list information which represents a function responding to a remote controller of *each of the respective devices* connected in the network. Rather, in Humpleman each of the respective devices remote control service list information is stored local to each device, and therefore is not centralized in one storage unit.

However, Wugoski discloses a remote control service processing device in a home network environment (Fig. 1, label 100 and column 4, lines 4-7) comprising a central storage unit (Fig. 1, labels 130) which stores remote control service list information which represents a function responding to a remote controller of each of the respective devices connected in the network (column 7, lines 6-16 and column 7, lines 58-61, macros (contain remote control service list information) are centrally stored on the information handling system (a PC) and send commands to networked devices; macros include multiple functions that correspond to respective devices, such functions (i.e. remote control service list information) are necessarily stored on the information handling system as the macros utilize them), and a control unit which collects the remote control service list information from each of the respective devices (column 7, lines 43-54 and column 7, lines 58-61; macros, centrally stored have access to "any combination of input command sources"; that is, within macros are contained commands which were previously collected from each of the respective devices).



Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Humpleman and Wugoski in order to centralize the storage of remote control function information thereby allowing for easier management and manipulation of that information (i.e. a user need not access each device individually in order to make respective changes).

11. As to claim 3, Humpleman discloses the database server maps an icon in correspondence with each device (column 13, lines 54-58).
12. As to claim 4, Humpleman discloses the remote control proxy server provides the remote control service so as to enable the certain device to select through the icon a device for remote control (column 13, line 64-column 14, line 5).
13. As to claim 5, Humpleman discloses the remote control proxy server provides an icon representation selection tool as the remote control service, with which a user can selectively display the icon (column 14, lines 6-18).
14. As to claim 6, Humpleman discloses when an information regarding the selection of the icon is received from the certain device, the remote control proxy server provides the remote control service so that a remote control service page can be displayed to display the remote control service list of the device corresponding to

the icon (column 13, lines 45-58, icons are linked to device homepages which have control commands for that particular device, e.g. Fig. 13).

15. As to claim 7, Humpleman discloses the remote control proxy server provides the certain device with a remote control service selection item in the form of a list together with other available services (column 18, lines 48-55 and Fig 13, various commands can be given to the DVCR).

16. As to claim 8, Humpleman discloses when an information regarding the selection from the remote control service item is received from the service list, the remote control proxy server provides a remote control service setting menu for the user to set functions of the respective devices in the network (column 18, lines 48-55 and Fig. 13, commands are listed for a device, in this example the DVCR), and provides a first remote control service page for displaying a remote control service provision menu for the functions of the devices registered through the remote control service setting menu (Fig. 12A and column 18, lines 4-8, a user can select any of the devices controlled by the system).

17. As to claim 9, Humpleman discloses when an information regarding the selection from the remote control service setting menu is received, the remote control proxy server provides a second remote control service page which matches the function lists of the respective devices with the devices and represents the result

(Fig. 12A, Fig. 12 column 18, lines 4-16, in this example a user selects the DVCR page, and now the functions available to the DVCR are displayed).

18. As to claim 10, Humpleman discloses when a control signal is input in accordance with the function selection of the respective devices in a state that the second remote control service page is displayed, the remote control proxy server provides the remote control service so that a function corresponding to the control signal among the remote control service list displayed on the second remote control service page is marked (Fig. 12A, Fig. 12 column 18, lines 4-16).

19. As to claim 15, Humpleman discloses when an information regarding the selection from the remote control service setting menu is received, the remote control proxy server provides a second remote control service page to separately display a device corresponding to the control signal in accordance with a function selection of the respective device, and functions corresponding to the control signal (Fig. 13 and column 18, lines 48-55).

20. As to claim 23, Humpleman discloses the certain device is a device having a display (column 7, lines 38-48).

21. As to claim 24, Humpleman discloses said remote control service processing device is said certain device (column 7, lines 38-48, display device provides interface to input commands).
22. Claims 11-14 and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Humpleman in view of Wugoski as applied to claims 1-10 above, and further in view of what was well known in the art at the time of the invention.
23. As to claim 11, Humpleman and Wugoski disclose the invention substantially with regard to the parent claim 10, and further discloses respective devices in the home network that have names that can be changed (Humpleman, Fig. 8, label 712, names of are obviously user created).

However, Humpleman and Wugoski do not disclose specifics with how those names can be changed specifically with regards to when a confirm button is selected, the database server generates a new identifier with respect to the functions in marking and the respective devices, matches and registers the functions in marking with the generated identifier. Simply, adding a confirm button when modifying the device identifiers in Humpleman would have been an obvious modification to one of ordinary skill in the art at the time of the invention. Therefore, Official Notice is taken, that combining the teachings of Humpleman

with a well-known practice in the art (the use of a confirm button) would have been obvious to one of ordinary skill in the art at the time of the invention.

24. As to claims 12 and 17, Humpleman and Wugoski disclose the database server registers the identifier as a device identifier (Humpleman, Fig. 8, label 712, names of are obviously user created and assigned to a specific device).

25. As to claims 13 and 19, Humpleman and Wugoski disclose the remote control service provision menu is selected, the remote control proxy server provides a third remote control service page so that the devices registered in the database server are displayed (Humpleman, Fig. 12A, label 1004 with labels 1014, 1016, 1018, and 1020 denoting the devices registered in the database).

26. As to claims 14 and 18, Humpleman and Wugoski disclose when an information regarding a remote control request is received from the certain device to the respective device which is registered with the identifier, the remote control proxy server transmits the remote control command sequentially and at a predetermined time interval to the respective device with respect to the function matched and registered with the identifier (Humpleman, Fig. 13, label 1006, commands are given to DVCR via the GUI).

27. As to claim 16, it is rejected by the same rationale set forth in claim 11's rejection.
28. As to claim 20, Humpleman and Wugoski disclose the database server maps an icon for each device (Humpleman, column 13, lines 54-58).
29. As to claim 21, Humpleman and Wugoski disclose the remote control proxy server provides the remote control service so that the certain device can select the icon of one of said devices wanted for remote control during the execution of the function of the certain device (Humpleman, column 13, line 64-column 14, line 5).
30. As to claim 22, Humpleman and Wugoski disclose when an information regarding the selection of one of said icons is received from the certain device, the remote control proxy server provides a third remote control service page so that the device and the function corresponding to the selected icon can be matched with each other and displayed (Humpleman, Fig. 13, label 1006 and column 18, lines 48-55).

### ***Conclusion***

31. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

32. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
33. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm.
34. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

35. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. J. D./  
Examiner, Art Unit 2452

/THU NGUYEN/  
Supervisory Patent Examiner, Art Unit 2452